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(74) Agent: WINCKELS, J., H., F.; Vereenigde, Johan de Witlaan 7, NL-2517 JR Den Haag (NL).

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(71) Applicant (for all designated States except US): OTB GROUP B.V. [NL/NL]; Luchthavenweg 10, NL-5657 EB Eindhoven (NL).

(72) Inventors; and

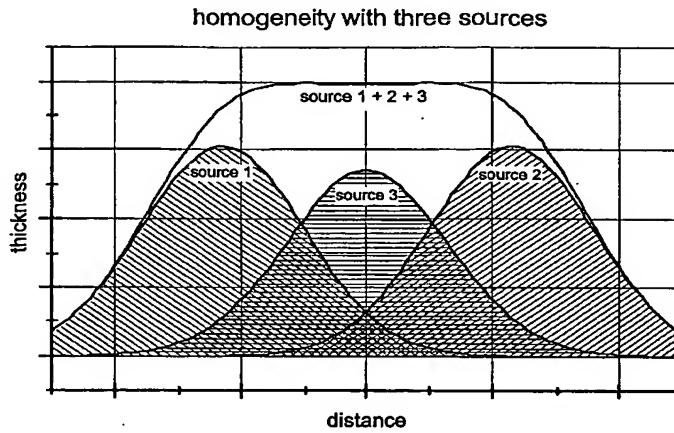
(75) Inventors/Applicants (for US only): BIJKER, Martin, Dinant [NL/NL]; Betuwehof 64, NL-5709 KR Helmond (NL). BOSCH, Roland, Cornelis, Maria [NL/NL]; Santvlietmolen 18, NL-5612 MC Eindhoven (NL). DINGS, Franciscus, Cornelius [NL/NL]; Kapelstraat-noord 129, NL-5502 CC Veldhoven (NL).

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(54) Title: METHOD AND AN APPARATUS FOR APPLYING A COATING ON A SUBSTRATE



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(57) Abstract: A method and apparatus for applying a coating on a substrate, wherein, opposite the substrate, at least two expanding thermal plasma (ETP) sources are arranged which provide the substrate with a coating, wherein the substrate is located in a process room in which the pressure is lower than the pressure, prevailing in the ETP sources, of a carrier gas which is introduced into the process room via the sources and which forms the expanding plasma, wherein the coating provided by each source has a layer thickness according to a certain deposition profile, for instance a Gaussian deposition profile, and wherein different process parameters are chosen such that, after the coating process, the addition of the deposition profiles results in a substantially uniform layer thickness of the coating on a relevant part of the substrate. Preferably, the distance between sources producing plasma at the same time is chosen and/or settable such that the expanding plasmas substantially do not influence each other.



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